1.1.3 [illegible]

[illegible]

XUE XI MU BIAO

1. [illegible].
2. [illegible].

[illegible]

NEI RONG SUO YIN

[illegible]

[illegible]

[illegible]

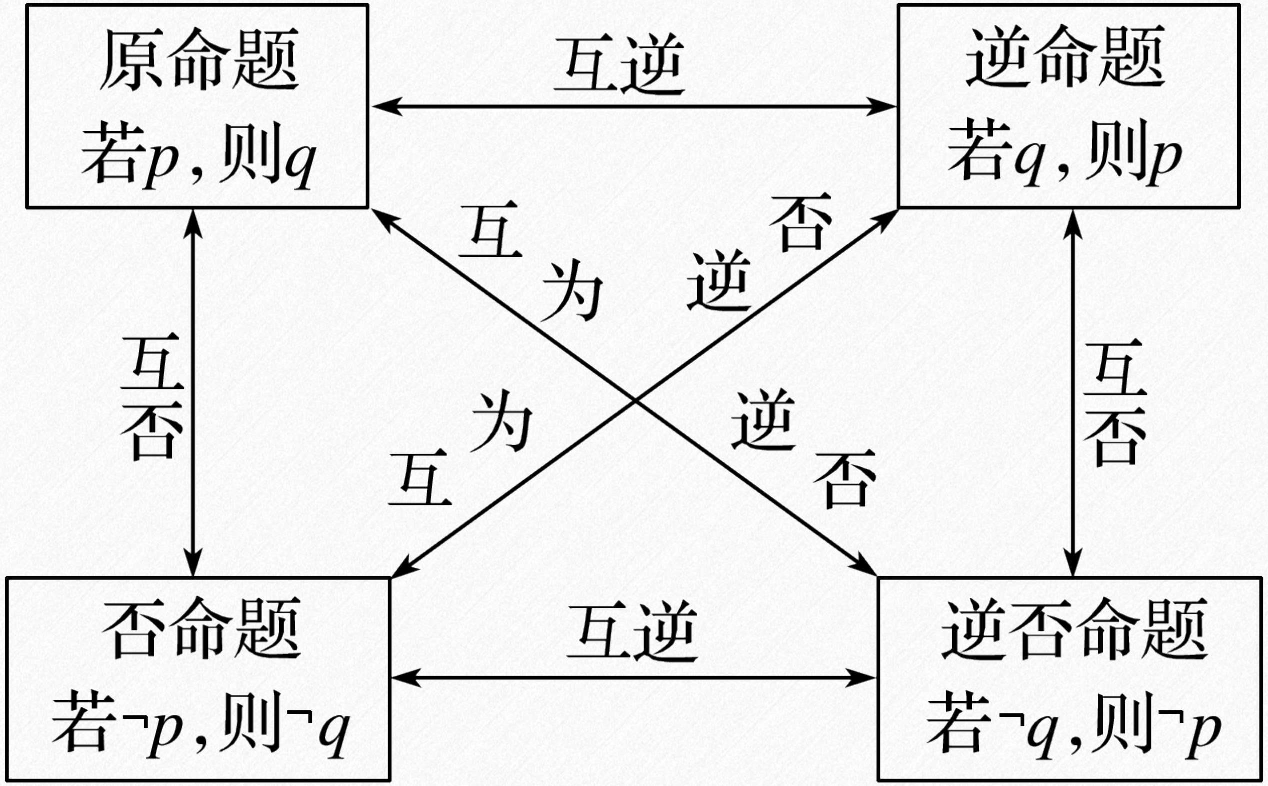
[illegible]

1

PART ONE

[illegible]

[illegible]



原命题
若p，则q
逆命题
若q，则p
否命题
若$\neg p$，则$\neg q$
逆否命题
若$\neg q$，则$\neg p$
互逆
互逆
互否
互否
互为逆否
互为逆否

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

(1) [illegible]__________[illegible] [illegible]

(2) [illegible]______________. [illegible]

1. [illegible].(　　) ×

2. [illegible].(　　) √

3. [illegible]“[illegible] p [illegible] q” [illegible]“[illegible] p [illegible] q”.(　　) ×

4. [illegible] 0 [illegible] 2 [illegible] 4.(　　) √

2

PART TWO

□□□□

□□□□□□□□□□

□1　(1) □□□□□□□□□□

①“□□□□□□□”□□□□□

②“□ $\sin\alpha \neq \frac{1}{2}$ □□ $\alpha \neq \frac{\pi}{6}$”□□□□□

③“□ x □ $\sqrt{2}$ □□□□□□ x □□□□”□□□□□.

A.①②③　　B.②③ √　　C.①③　　D.①

□□ ①□□□□□□□□“□□□□□□□□□□□□□□□□□□□□□□□”.□□□□□.

②“ □ $\sin\alpha\neq\frac{1}{2}$□ □ $\alpha\neq\frac{\pi}{6}$” □□□□□□□□□□□

③□□□□□□□□□“ □ x□□□□□□□ x□$\sqrt{2}$□□□□□”.

∵x□□□□□□∴x□□□□.

□$\sqrt{2}$□□□□□∴x□$\sqrt{2}$□□□□□

□□□□□.□□□□□.

□□□□□□□②③□□□B.

(2) [illegible]“[illegible] x [illegible] 5 [illegible] x^2 [illegible] $8x$ [illegible] 15 [illegible] 0” [illegible]

[illegible] ______.

2

[illegible] [illegible]“[illegible] x [illegible] 5 [illegible] x^2 [illegible] $8x$ [illegible] 15 [illegible] 0” [illegible]. [illegible]

[illegible] 2.

[illegible]

[illegible].

□□□□ **1**　□□□□□□□□□□□□□□□□□□□□.

(1) □ $ab \leq 0$ □□ $a \leq 0$ □ $b \leq 0$ □

□　□□□□□ $a \leq 0$ □ $b \leq 0$ □□ $ab \leq 0$. □□□□□.

□□□□□□ $a>0$ □ $b>0$ □□ $ab>0$. □□□□□.

□□□□□□□□□□□□□□□□□□□□□□□.

(2) □ a □ $b \geq 2$ □□ a □ b □□□□□□□□□ 1.

□ □□□□□□ a □ b □□□□□□□□□ 1 □□ a □ b □ 2 □□□□□.

□□□□□ a □ b □□□□□□□□□ 1 □□ a □ $b \geq 2$ □□ a □ 5 □ b □□ 5 □□ a □ b □□□□□□□ □□ 1 □□ a □ b □ 0 □□□□□□□□□□□□□□□□□□□□.

□2 □□□□“□□ a □ x □□□□□□□ x □□□□ x^2 □ $(2a$ □ $1)x$ □ a^2 □ $2\leq 0$ □□□□□□□

□ $a<2$” □□□□□□□□□.

□　□□□　□□□□□□□□□“□□ a □ x □□□□□ $a\geq 2$ □□□□ x □□□□ x^2 □ $(2a$ □ $1)x$ □ a^2 □ $2\leq 0$ □□□□□□□” .

□□□□□□□

□□□ y □ x^2 □ $(2a$ □ $1)x$ □ a^2 □ 2 □□□□□□

□□□□□□□□ Δ □ $(2a$ □ $1)^2$ □ $4(a^2$ □ $2)$ □ $4a$ □ 7 □

□□ $a\geq 2$ □□□ $4a$ □ $7>0$ □

□□□□□ x □□□□□

□□□□ x □□□□ x^2 □ $(2a$ □ $1)x$ □ a^2 □ $2\leq 0$ □□□□□□□□□

□□□□□□□□□□□.

[illegible] [illegible]

[illegible] a [illegible] x [illegible] x [illegible] x^2 [illegible] $(2a$ [illegible] $1)x$ [illegible] a^2 [illegible] $2\leq 0$ [illegible]

[illegible]

Δ [illegible] $(2a$ [illegible] $1)^2$ [illegible] $4(a^2$ [illegible] $2)$ [illegible] $4a$ [illegible] $7<0.$

[illegible] $a<\frac{7}{4}<2.$

[illegible].

[illegible]

[illegible].

□□□□

1.□□□□“□□ a □ x □□□□□□□ x □□□□ x^2 □ $(2a$ □ $1)x$ □ a^2 □ $2\le 0$ □□□□□□□□ $a<2$” □□□□□□□.

□ □□□□□□□□“□□ a □ x □□□□□ $a<2$ □□□□ x □□□□ x^2 □ $(2a$ □ $1)x$ □ a^2 □ $2\le 0$ □□□□□□”.

□□□□□□□

□□□ y □ x^2 □ $(2a$ □ $1)x$ □ a^2 □ 2 □□□□□□

□□□□□□□□ Δ □ $(2a$ □ $1)^2$ □ $4(a^2$ □ $2)$ □ $4a$ □ 7 □

□□ $a<2$ □□□ $4a$ □ $7<1$ □

□ $0\le\Delta<1$ □□□□□□ x □□□□□

□ $\Delta<0$ □□□□□□ x □□□□□

□□□□ x □□□□ x^2 □ $(2a$ □ $1)x$ □ a^2 □ $2\le 0$ □□□□□□□□□□

□□□□□□□□□□□□.

□□□□□□□□□□□□□.

2.□□□□“□□ a□x□□□□□□□ x□□□□ x^2□$(2a$□$1)x$□a^2□$2>0$□

□□□ **R**□□ $a<\frac{7}{4}$”□□□□□□□□.

[illegible] [illegible]

[illegible] a [illegible] x [illegible] x [illegible] x^2 [illegible] $(2a$ [illegible] $1)x$ [illegible] a^2 [illegible] $2>0$ [illegible] $\mathbf{R}$ [illegible] y [illegible] x^2 [illegible] $(2a$ [illegible] $1)x$ [illegible] a^2 [illegible] 2 [illegible]

[illegible] Δ [illegible] $(2a$ [illegible] $1)^2$ [illegible] $4(a^2$ [illegible] $2)$ [illegible] $4a$ [illegible] $7<0$.

[illegible] $a<\frac{7}{4}$.

[illegible].

[illegible]

[illegible].

[illegible]

(1) [illegible]

(2) [illegible]

□□□□ **2**　□□□□ a^2 □ $4b^2$ □ $2a$ □ $1\neq 0$ □□ $a\neq 2b$ □ 1.

□□　□□“□ a^2 □ $4b^2$ □ $2a$ □ $1\neq 0$ □□ $a\neq 2b$ □ 1” □□□□□□“□ a □ $2b$ □ 1 □□ a^2 □ $4b^2$ □ $2a$ □ 1 □ 0”.

□ a □ $2b$ □ 1 □□ a^2 □ $4b^2$ □ $2a$ □ 1 □ $(2b$ □ $1)^2$ □ $4b^2$ □ $2\times(2b$ □ $1)$ □ 1 □ $4b^2$ □ $4b$ □ 1 □ $4b^2$ □ $4b$ □ 2 □ 1 □ 0 □

□□□□□□□□□□□□□□□□□□□□□□□.□□□□□□.

返回

3

PART THREE

[illegible]

1. [illegible]“[illegible] p [illegible] q [illegible]”[illegible]

A. [illegible] q [illegible] p [illegible]　B. [illegible] q [illegible] p [illegible]

C. [illegible] q [illegible] p [illegible]　D. [illegible] p [illegible] q [illegible] √

[illegible]　[illegible].

2. □□□□□□□□□□

√ A. □□“□ $x>y$ □□ $x>|y|$” □□□□

B. □□“□ x □ 1 □□ $x^2>1$” □□□□

C. □□“□ x □ 1 □□ x^2 □ x □ 2 □ 0” □□□□

D. □□“□ $x^2>1$ □□ $x>1$” □□□□□

□□ □ A □□□□□□ $x>|y|$ □□ $x>y$ □□□□□□□□□□.

3. [illegible] y [illegible] $f(x)$ [illegible]

[illegible]

A.3　　B.2　　C.1　　D.0 √

[illegible]　[illegible]

[illegible]

[illegible] C.

4. □□“□ x^2 □ y^2 □ 2 □□ x □ $y\leq 2$” □□□□□□□□□

A. □ x □ $y\leq 2$ □□ x^2 □ y^2 □ 2 B. □ x □ $y>2$ □□ x^2 □ $y^2\neq 2$ √

C. □ x^2 □ $y^2\neq 2$ □□ x □ $y>2$ D. □ x □ $y\leq 2$ □□ x^2 □ $y^2\leq 2$

□□ □□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□“□ x □ $y>2$ □□ x^2 □ $y^2\neq 2$” □

□□ B.

5. [illegible]

①“[illegible]$k>0$[illegible]x^2[illegible]$2x$[illegible]k[illegible]0[illegible]”[illegible]

②“[illegible]$\frac{1}{a}>\frac{1}{b}$[illegible]$a<b$”[illegible]

③“[illegible]”[illegible].

[illegible]___①②___.([illegible])

[illegible] [illegible]①[illegible]$k\leq 0$[illegible]x^2[illegible]$2x$[illegible]k[illegible]0[illegible]

[illegible]②[illegible]$a<b$[illegible]$\frac{1}{a}>\frac{1}{b}$[illegible]

③[illegible]①②.

1. [illegible]

(1) [illegible].

(2) [illegible].

2. [illegible].

3. [illegible].

4 □□□□□

□□□□

1. □□□□ p □□ $x<$ □3 □□ x^2 □2x□8>0 □□□□□□□□□

A. □□ p □□□□□□□ x^2 □2x□8≤0 □□ $x<$ □3

B. □□ p □□□□□□□ $x\geq$ □3 □□ x^2 □2x□8>0

C. □□ p □□□□□□□ $x<$ □3 □□ x^2 □2x□8≤0

√ D. □□ p □□□□□□□□□

□□ □ $x<$ □3 □□ x^2 □2x□8□(x□4)(x□2)>0□

∴ □□ p □□□□□□□□□□□□□□□□□.

2. □□□“□□6□□□□□□□□□□2□□”□□□□□□□□

A. □□2□□□□□□□□□□6□□

B. □□□6□□□□□□□□□□□2□□

C. □□□6□□□□□□□□□2□□

√ D. □□□2□□□□□□□□□□□6□□

□□ □□□□□□□□□□□□□□□□□□□D.

3. [illegible] p [illegible] q [illegible] p [illegible] r [illegible] q [illegible] r [illegible]

√ A. [illegible]　　B. [illegible]

C. [illegible]　D. [illegible]

[illegible]　[illegible] p [illegible]“[illegible] A [illegible] B” [illegible]

[illegible] q [illegible]“[illegible] A [illegible] B” [illegible] r [illegible]“[illegible] B [illegible] A”.

[illegible] q [illegible] r [illegible].

4. [illegible]

A.0　　B.1　　√ C.2　　D.4

[illegible]　[illegible].

5. [illegible] p [illegible] a [illegible] 0 [illegible] q [illegible] a [illegible] 0 [illegible] a [illegible] p [illegible] q [illegible]

A. [illegible]　B. [illegible]　C. [illegible]　D. [illegible] √

[illegible]　[illegible]“[illegible] a [illegible] 0” [illegible]“[illegible] a [illegible] 0 [illegible] a [illegible]”.

6. [illegible]"[illegible] a[illegible] b[illegible] $\sqrt{a}>\sqrt{b}$[illegible] $a>b$" [illegible]

[illegible] ____2____.

[illegible] [illegible]

[illegible]"[illegible] a[illegible] b[illegible] $a>b$[illegible] $\sqrt{a}>\sqrt{b}$" [illegible]

[illegible] 2 [illegible]

[illegible].

7. □□ a □ $b\in\mathbf{R}$ □□□“□ a □ b □ 1 □□ a^2 □ $b^2\geq\frac{1}{2}$”□□□□□

□ a□ $b\neq 1$□ □ a^2□ $b^2<\frac{1}{2}$ ______________________.

□□ “a□b□1”□“a^2□$b^2\geq\frac{1}{2}$”□□□□□□“a□$b\neq 1$”□“a^2□$b^2<\frac{1}{2}$”□

□□□□□“□ a□ $b\neq 1$□ □ a^2□ $b^2<\frac{1}{2}$”.

8. □□“□ $a>b$ □□ $ac^2>bc^2$” □□□□□ <u>□ $a\leq b$ □□ $ac^2\leq bc^2$</u> □□ <u>□</u> (□“□”□“□”)□□.

9.□□□□“□$\sqrt{x□2}$□$(y□1)^2$□0□□x□2□y□□1”□□□□.□□□□

□□□□□□□□□□□□□□□□□□.

□ □□□□□$\sqrt{x□2}$□$(y□1)^2 \neq 0$□□$x \neq 2$□$y \neq$□1□□□□□

∴□□□□□□□□□

□□□□□□□□□

∴□□□□□□□□□.

10. □□□□□“□ $b\leq$ □1 □□□□ x □□□ x^2□$2bx$□b^2□b□0 □□□”□□□□□□□□.

□ □□□ (□□□□□)□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□.

□□□□□□ Δ□$4b^2$□$4(b^2$□$b)$□□ $4b$ □□□ $b\leq$ □1 □□□ $\Delta\geq 4>0$ □□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□.

□□□ (□□□□□□)□□□□□□□□□“□□□ x □□□ x^2□$2bx$□b^2□b□0 □□□□□ $b>$ □

1”. □□□□□□ Δ□$4b^2$□$4(b^2$□$b)$□□ $4b$ □□□□□□□□□□□ $\Delta<0$ □□□ $4b<0$ □□□

$b>0$ □□□ $b>$ □1 □□□□□□□□□□□□□.

11. □□□□“□ $\frac{a_n \square a_{n \square 1}}{2}<a_n$□$n\in\mathbf{N}^*$□□$\{a_n\}$□□□□□”□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□

√ A. □□□□□　　B. □□□□□

C. □□□□□　　D. □□□□□

□□　□□□□□□□□□□□□□□ $\frac{a_n \square a_{n \square 1}}{2}<a_n \Leftrightarrow a_{n \square 1}<a_n \Leftrightarrow \{a_n\}$ □□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□.

12. [illegible]

A. [illegible]

B.“$a>b$” [illegible]“ a [illegible] $c>b$ [illegible] c” [illegible]

C.“ [illegible] a^2 [illegible] b^2 [illegible] 0 [illegible] a [illegible] b [illegible] 0” [illegible]“ [illegible] a [illegible] b [illegible] 0 [illegible]

[illegible] a^2 [illegible] $b^2 \neq 0$”

√ D. [illegible]

[illegible] [illegible].

13. □□□□ p □□ $a>b>0$ □□ $\log_{\frac{1}{2}}a<\log_{\frac{1}{2}}b$ □1□□□□ p □□□□□□□□□□□□□□□

□□□□□□□ ____.

2

[illegible] ∵ $a>b>0$ [illegible]∴ $\log_{\frac{1}{2}} a < \log_{\frac{1}{2}} b < \log_{\frac{1}{2}} b$ [illegible] 1 [illegible]

∴ [illegible] p [illegible]“[illegible] $a < \log_{\frac{1}{2}} b$ [illegible] $\log_{\frac{1}{2}}$ 1 [illegible] $a>b>0$” [illegible]

∵ [illegible] a [illegible] 2 [illegible] b [illegible] 2 [illegible] $\log_{\frac{1}{2}} a < \log_{\frac{1}{2}} b$ [illegible] 1 [illegible]

[illegible] a [illegible] b [illegible]∴[illegible].

∵ [illegible]

∴ [illegible] p [illegible] 2.

14. □□□“□ $x<m$ □1 □ $x>m$ □1 □□ x^2 □2x □3>0” □□□□□□□□□□□□□□□□□

m □□□□□□ ________.　　　　[0,2]

□□　□□□□□□ $\{x|x^2$ □$2x$ □$3>0\}\in\{x|x<m$ □1 □ $x>m$ □$1\}$.

□ $\{x|x^2$ □$2x$ □$3>0\}$ □ $\{x|x<$ □1 □ $x>3\}$ □

∴ $\begin{cases} □1\le m□1□ \\ m□1<3 \end{cases}$ □ $\begin{cases} □1<m□1□ \\ m□1\le 3□ \end{cases}$

∴$0\le m\le 2$.

15. □□□□“□□□□ M □□□□□□□□ P □□□□”□□□□□□□□□□□□□□□□□□□□

①M □□□□□□□ P □□□□② M □□□□□ P □□□□③ M □□□□ P □□□□④ M □□□□□□

□ P □□□.

A.1　B.2　C.3　D.4

√

□□　□□“ $M \subseteq P$” □□□□□□ M □□□□□□□□□□ P □∴②④□□.

M □□□□□□ P □□□□□□□□□□ P □□□□□①③□□. □B.

16. □□□□ a^2 □ $2ab$ □ b^2 □ $2a$ □ $2b$ □ $3\neq 0$ □□ a □ $b\neq 1$.

□□ □□□□ p □□ a^2 □ $2ab$ □ b^2 □ $2a$ □ $2b$ □ $3\neq 0$ □

□ a □ $b\neq 1$.

□□□□□□□□ a □ b □ 1 □

□ a^2 □ $2ab$ □ b^2 □ $2a$ □ $2b$ □ 3 □ 0 □

□□□□□□□□□□□□.

□□ a □ b □ 1 □

□□ a^2 □ $2ab$ □ b^2 □ $2a$ □ $2b$ □ 3 □ $(a$ □ $b)^2$ □ $2(a$ □ $b)$ □ 3 □ 1^2 □ 2 □

3 □ 0.

□□□□□□□□□□□□□□□□□.